

#4

SEQUENCE LISTING

<110> BAKER, Matthew
CARR, Francis J.

<120> MODIFIED BRYODIN 1 WITH REDUCED IMMUNOGENICITY

<130> MER-134

<140> US/10/517,707
<141> 2004-12-10

<150> PCT/EP03/06055
<151> 2003-06-10

<150> EP 02012911.0
<151> 2002-06-11

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<212> PRT
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			20					25					30		
Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser	Gly	Ser	Gly	Arg	Tyr	Thr
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Leu	Leu	His	Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala	Val
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Asp	Val	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser
65					70					75					80
Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe
				85					90					95	
Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu
			100					105					110		
Arg	Leu	Gln	Thr	Ala	Ala	Gly	Lys	Ile	Arg	Glu	Asn	Ile	Pro	Leu	Gly
		115					120					125			
Leu	Pro	Ala	Leu	Asp	Ser	Ala	Ile	Thr	Thr	Leu	Tyr	Tyr	Tyr	Thr	Ala
	130					135					140				
Ser	Ser	Ala	Ala	Ser	Ala	Leu	Leu	Val	Leu	Ile	Gln	Ser	Thr	Ala	Glu
145					150					155					160
Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp
				165					170					175	
Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu	Asn	Asn	Trp
			180					185					190		
Ser	Ala	Leu	Ser	Lys	Gln	Ile	Gln	Ile	Ala	Ser	Thr	Asn	Asn	Gly	Gln
		195					200					205			
Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser
	210					215					220				
Ile	Thr	Asn	Ala	Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu
225					230					235					240

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Leu Ile Gly Phe Glu His Gly Leu Tyr Gly Ile
            260                 265
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Val Ala Val Asp Val
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 1               5                  10                  15
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<400> 5

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 1               5                  10                  15
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Gln Ile Ala Ser Thr
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<222> 55, 60, 64, 66
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Xaa=Pro
Xaa=Ala, Gly, Pro
Xaa=Ala, Gly, Pro

<221> VARIANT
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Arg, Ser, Thr
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<221> VARIANT
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Xaa=Ala, Ser, thr, Pro, Asn, Asp, Glu, Gly, His,
Lys, Gln

<221> VARIANT
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Xaa=Phe, Pro, Trp

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Phe	Ile	Lys	Asn	Leu	Arg	Glu	Ala	Leu	Pro	Tyr	Glu	Arg	Lys	Val	Tyr
			20					25					30		
Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser	Gly	Ser	Gly	Arg	Tyr	Xaa
		35					40					45			
Xaa	Leu	Xaa	Leu	Thr	Xaa	Xaa	Ala	Asp	Glu	Thr	Xaa	Ser	Val	Ala	Xaa
	50					55					60				
Asp	Xaa	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser
65					70					75					80
Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Xaa	Xaa	Phe
				85					90					95	
Lys	Asp	Ala	Lys	Lys	Lys	Xaa	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu
			100					105					110		
Arg	Xaa	Gln	Thr	Xaa	Ala	Xaa	Xaa	Xaa	Xaa	Glu	Asn	Xaa	Pro	Leu	Gly
		115					120					125			
Xaa	Pro	Ala	Xaa	Asp	Ser	Ala	Xaa	Thr	Thr	Xaa	Tyr	Xaa	Xaa	Thr	Ala
	130					135					140				
Ser	Ser	Ala	Ala	Ser	Ala	Xaa	Xaa	Xaa	Xaa	Ile	Gln	Ser	Thr	Ala	Glu
145					150					155					160
Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp
				165					170					175	
Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Xaa	Ser	Xaa	Glu	Asn	Asn	Trp
			180					185					190		
Ser	Ala	Xaa	Ser	Xaa	Gln	Xaa	Gln	Xaa	Ala	Ser	Thr	Asn	Asn	Gly	Gln
		195					200					205			
Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser
	210					215					220				
Ile	Thr	Asn	Ala	Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu
225					230					235					240
Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met	Thr
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Leu	Ile	Gly	Phe	Glu	His	Gly	Leu	Tyr	Gly	Ile					
			260					265							

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Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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<211> 15
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<400> 9
Lys Val Val Asp Gln Ile Lys Lys Ile Ser Lys Pro Val Gln His
 1   5   10   15

<210> 10
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<400> 10
Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr
 1   5   10

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<400> 11
Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val
 1   5   10

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<400> 12
Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala
 1   5   10

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<400> 13
Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro
 1   5   10

<210> 14
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<400> 14
Gly Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr
 1   5   10

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<400> 15
Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu
 1   5   10

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Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val
 1   5   10

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Glu Ala Leu Pro Tyr Glu Arg Lys Val Tyr Asn Ile Pro
 1   5   10

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Leu Pro Tyr Glu Arg Lys Val Tyr Asn Ile Pro Leu Leu
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Arg Lys Val Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile
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Lys Val Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser
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Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser
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Gly Arg Tyr Thr Leu Leu His Leu Thr Asn Tyr Ala Asp
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<400> 26

Tyr Thr Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr
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Thr Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr Ile
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Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala Val Asp
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Glu Thr Ile Ser Val Ala Val Asp Val Thr Asn Val Tyr
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Val Ala Val Asp Val Thr Asn Val Tyr Ile Met Gly Tyr
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Val Asp Val Thr Asn Val Tyr Ile Met Gly Tyr Leu Ala
 1   5   10

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 1   5   10

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Asn Val Tyr Ile Met Gly Tyr Leu Ala Gly Asp Val Ser
 1   5   10

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Val Tyr Ile Met Gly Tyr Leu Ala Gly Asp Val Ser Tyr
 1   5   10

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Met Gly Tyr Leu Ala Gly Asp Val Ser Tyr Phe Phe Asn
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<400> 39
Gly Tyr Leu Ala Gly Asp Val Ser Tyr Phe Phe Asn Glu
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Val Ser Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala
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Ser Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala
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Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys
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Ala Lys Phe Val Phe Lys Asp Ala Lys Lys Lys Val Thr
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Lys Phe Val Phe Lys Asp Ala Lys Lys Lys Val Thr Leu
 1   5   10

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Phe Val Phe Lys Asp Ala Lys Lys Lys Val Thr Leu Pro
 1   5   10

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Leu Pro Tyr Ser Gly Asn Tyr Glu Arg Leu Gln Thr Ala

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Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala
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Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala
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Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr
 1   5   10

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Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu
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<400> 56
Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr
 1   5   10

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<400> 57
Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser
 1   5   10

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<400> 58
Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser
 1   5   10

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<400> 59
Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala
 1   5   10

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<400> 60
Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu
 1   5   10

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<400> 61
Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu Leu
 1   5   10

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<400> 62
Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser
 1   5   10

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<400> 63
Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
 1   5   10

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<400> 64
Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg
 1   5   10

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Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr
 1   5   10

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<400> 66
Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys
 1   5   10

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<400> 67
Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg
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Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp
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Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp Lys
 1   5   10

<210> 70
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Gln Gln Ile Gly Lys Arg Val Asp Lys Thr Phe Leu Pro
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Lys Arg Val Asp Lys Thr Phe Leu Pro Ser Leu Ala Thr
 1   5   10

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<220>
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Lys Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu
 1   5   10

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<400> 73
Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn
 1   5   10

<210> 74
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<400> 74
Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser
 1   5   10

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<400> 75
Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser
 1   5   10

<210> 76
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<400> 76
Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln
 1   5   10

<210> 77
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<400> 77
Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala
 1   5   10

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<400> 78
Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn
 1   5   10

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<400> 79
Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe
 1   5   10

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<400> 80
Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe Glu Ser
 1   5   10

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<400> 81
Gly Gln Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn
 1   5   10

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<400> 82
Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val
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<400> 83
Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser
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<400> 84
Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile
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<210> 85
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<400> 85
Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile Thr
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<400> 86

Gln Arg Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val
1 5 10

<210> 87
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<400> 87
Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser
1 5 10

<210> 88
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<400> 88
Ala Arg Val Val Thr Ser Asn Ile Ala Leu Leu Leu Asn
1 5 10

<210> 89
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<400> 89
Arg Val Val Thr Ser Asn Ile Ala Leu Leu Leu Asn Arg
1 5 10

<210> 90
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<400> 90
Ser Asn Ile Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala
1 5 10

<210> 91
<211> 13
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<400> 91
Ile Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile
 1   5   10

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<400> 92
Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly
 1   5   10

<210> 93
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<400> 93
Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly Glu
 1   5   10

<210> 94
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<400> 94
Asn Asn Ile Ala Ala Ile Gly Glu Asp Ile Ser Met Thr
 1   5   10

<210> 95
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<400> 95
Ala Ala Ile Gly Glu Asp Ile Ser Met Thr Leu Ile Gly
 1   5   10

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<400> 96
Glu Asp Ile Ser Met Thr Leu Ile Gly Phe Glu His Gly
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<210> 97
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<400> 97
Ile Ser Met Thr Leu Ile Gly Phe Glu His Gly Leu Tyr
 1   5   10

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<400> 98
Met Thr Leu Ile Gly Phe Glu His Gly Leu Tyr Gly Ile
 1   5   10

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<400> 99
Asp Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly
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<210> 100
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<400> 100
Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val Phe Ile
1 5 10 15

<210> 101
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<400> 101
Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu
1 5 10 15

<210> 102
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<400> 102
Thr Thr Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala
1 5 10 15

<210> 103
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<400> 103
Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr
1 5 10 15

<210> 104
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<400> 104
Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys
1 5 10 15

<210> 105
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<212> PRT
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<400> 105
Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val Tyr Asn
 1   5   10   15

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<400> 106
Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val Tyr Asn Ile Pro Leu
 1   5   10   15

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<400> 107
Leu Pro Tyr Glu Arg Lys Val Tyr Asn Ile Pro Leu Leu Arg Ser
 1   5   10   15

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<400> 108
Glu Arg Lys Val Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser
 1   5   10   15

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<400> 109
Val Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly

1 5 10 15

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<400> 110
Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr Thr
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<400> 111
Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr Thr Leu Leu His
1 5 10 15

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<400> 112
Ser Ile Ser Gly Ser Gly Arg Tyr Thr Leu Leu His Leu Thr Asn
1 5 10 15

<210> 113
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<400> 113
Gly Ser Gly Arg Tyr Thr Leu Leu His Leu Thr Asn Tyr Ala Asp
1 5 10 15

<210> 114
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<400> 114
Arg Tyr Thr Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr Ile
 1   5   10   15

<210> 115
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<400> 115
Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala
 1   5   10   15

<210> 116
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<400> 116
Leu Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala Val Asp Val
 1   5   10   15

<210> 117
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<400> 117
Tyr Ala Asp Glu Thr Ile Ser Val Ala Val Asp Val Thr Asn Val
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<210> 118
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<400> 118
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 1   5   10   15

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<400> 119
Ser Val Ala Val Asp Val Thr Asn Val Tyr Ile Met Gly Tyr Leu
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<210> 120
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<400> 120
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<400> 122
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 1   5   10   15

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Gly Tyr Leu Ala Gly Asp Val Ser Tyr Phe Phe Asn Glu Ala Ser
1 5 10 15

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<400> 124
Ala Gly Asp Val Ser Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu
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<400> 125
Val Ser Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys
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<400> 126
Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys Phe Val Phe
1 5 10 15

<210> 127
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<400> 127
Glu Ala Ser Ala Thr Glu Ala Ala Lys Phe Val Phe Lys Asp Ala
1 5 10 15

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<400> 128
Ala Thr Glu Ala Ala Lys Phe Val Phe Lys Asp Ala Lys Lys Lys
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<400> 129
Ala Ala Lys Phe Val Phe Lys Asp Ala Lys Lys Lys Val Thr Leu
 1   5   10   15

<210> 130
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<400> 130
Phe Val Phe Lys Asp Ala Lys Lys Lys Val Thr Leu Pro Tyr Ser
 1   5   10   15

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<400> 131
Lys Asp Ala Lys Lys Lys Val Thr Leu Pro Tyr Ser Gly Asn Tyr
 1   5   10   15

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<400> 132
Lys Lys Lys Val Thr Leu Pro Tyr Ser Gly Asn Tyr Glu Arg Leu
 1   5   10   15

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<400> 133
Val Thr Leu Pro Tyr Ser Gly Asn Tyr Glu Arg Leu Gln Thr Ala
 1   5   10   15

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<400> 134
Pro Tyr Ser Gly Asn Tyr Glu Arg Leu Gln Thr Ala Ala Gly Lys
 1   5   10   15

<210> 135
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<400> 135
Gly Asn Tyr Glu Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu
 1   5   10   15

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<400> 136
Glu Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro
 1   5   10   15

<210> 137
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<400> 137
Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly Leu
1 5 10 15

<210> 138
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<400> 138
Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu
1 5 10 15

<210> 139
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<400> 139
Ile Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala
1 5 10 15

<210> 140
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<400> 140
Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr
1 5 10 15

<210> 141
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<400> 141
Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr
1 5 10 15

<210> 142

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<400> 142
Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala
 1   5   10   15

<210> 143
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<400> 143
Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala
 1   5   10   15

<210> 144
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<400> 144
Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala
 1   5   10   15

<210> 145
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<400> 145
Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu Leu Val
 1   5   10   15

<210> 146
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<400> 146

Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln
1 5 10 15

<210> 147
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<400> 147
Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala
1 5 10 15

<210> 148
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<400> 148
Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
1 5 10 15

<210> 149
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<400> 149
Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys
1 5 10 15

<210> 150
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<400> 150
Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys Phe Ile Glu
1 5 10 15

<210> 151
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<400> 151
Ser Thr Ala Glu Ser Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile
 1   5   10   15

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<400> 152
Glu Ser Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg
 1   5   10   15

<210> 153
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<400> 153
Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp Lys
 1   5   10   15

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<400> 154
Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp Lys Thr Phe Leu
 1   5   10   15

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<400> 155
Gln Gln Ile Gly Lys Arg Val Asp Lys Thr Phe Leu Pro Ser Leu
 1   5   10   15

<210> 156
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<400> 156
Gly Lys Arg Val Asp Lys Thr Phe Leu Pro Ser Leu Ala Thr Ile
 1   5   10   15

<210> 157
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<400> 157
Val Asp Lys Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu
 1   5   10   15

<210> 158
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<400> 158
Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn Asn Trp
 1   5   10   15

<210> 159
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<400> 159
Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu
 1   5   10   15

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<400> 160
Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln
1 5 10 15

<210> 161
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<400> 161
Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile
1 5 10 15

<210> 162
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<400> 162
Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr
1 5 10 15

<210> 163
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<212> PRT
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<400> 163
Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly
1 5 10 15

<210> 164
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<400> 164
Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe Glu
1 5 10 15

<210> 165
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<212> PRT
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<400> 165
Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe Glu Ser Pro Val
 1   5   10   15

<210> 166
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<400> 166
Ala Ser Thr Asn Asn Gly Gln Phe Glu Ser Pro Val Val Leu Ile
 1   5   10   15

<210> 167
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<400> 167
Asn Asn Gly Gln Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn
 1   5   10   15

<210> 168
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<400> 168
Gln Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg
 1   5   10   15

<210> 169
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<400> 169
Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile

1 5 10 15

<210> 170
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<400> 170
Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile Thr Asn Ala
1 5 10 15

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<400> 171
Asp Gly Asn Asn Gln Arg Val Ser Ile Thr Asn Ala Ser Ala Arg
1 5 10 15

<210> 172
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<400> 172
Asn Gln Arg Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr
1 5 10 15

<210> 173
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<400> 173
Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser Asn Ile
1 5 10 15

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<400> 174
Thr Asn Ala Ser Ala Arg Val Val Thr Ser Asn Ile Ala Leu Leu
 1   5   10   15

<210> 175
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<400> 175
Ser Ala Arg Val Val Thr Ser Asn Ile Ala Leu Leu Leu Asn Arg
 1   5   10   15

<210> 176
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<211> 15
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<220>
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 1   5   10   15

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 1   5   10   15

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 1   5   10   15

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 1   5   10   15